

What is claimed is:

1. A color cathode ray tube, comprising:
a color fluorescent screen created by forming, on a color selecting
5 mechanism, a resist pattern that is independent of beam transmissive
apertures of said color selecting mechanism and by using said resist
pattern as a mask; and
said color selecting mechanism from which said resist pattern is
removed.
- 10 2. A method of manufacturing a color cathode ray tube, comprising:
forming on a color selecting mechanism a resist pattern that is
independent of beam transmissive apertures of said color selecting
mechanism;
15 creating a fluorescent screen using said resist pattern as a mask;
and
forming said color selecting mechanism by removing said resist
pattern after creating said fluorescent screen.
- 20 3. A method of manufacturing a color cathode ray tube, comprising:
forming a mask member that is obtained by forming a first resist
pattern having one of a first aperture width and a first aperture diameter
on one side of a base material, forming a second resist pattern having one
25 of a second aperture width and a second aperture diameter that is smaller
than one of said first aperture width and said first aperture diameter on
the other side of said base material, and selectively removing said base
material with said first resist pattern, substantially, as a mask;
creating a fluorescent screen using said second resist pattern of
said mask member as a mask; and
30 forming a color selecting mechanism by removing said first resist
pattern and said second resist pattern of said mask member after creating

said fluorescent screen.

4. A method of manufacturing a color cathode ray tube, comprising:
forming a mask member by,

5 forming a first photoresist material on one side of a base
material and a second photoresist material on the other side;

exposing said first photoresist material and said second
photoresist material in differing patterns;

forming a first resist pattern having one of a first aperture
10 width and a first aperture diameter by processing said first photoresist
material;

selectively removing said base material with said first
resist pattern as a mask until said second photoresist material is reached;
and

15 forming a second resist pattern having one of a second
aperture width and a second aperture diameter that is smaller than one of
said first aperture width and said first aperture diameter by processing
said second photoresist material, and

forming a color selecting mechanism by,

20 creating a fluorescent screen using said second resist
pattern of said mask member as a mask; and

removing said first resist pattern and said second resist
pattern of said mask member after creating said fluorescent screen.

25 5. A method of manufacturing a color cathode ray tube, comprising:
forming a mask member by,

forming a first photoresist material on one side of a base
material and a second photoresist material on the other side;

30 exposing said first photoresist material and said second
photoresist material in differing patterns;

forming a first resist pattern having one of a first aperture

width and a first aperture diameter by processing said first photoresist material;

forming a second resist pattern having one of a second aperture width and a second aperture diameter that is smaller than one of
5 said first aperture width and said first aperture diameter by processing said second photoresist material; and

selectively removing said base material in a pattern corresponding to said first resist pattern with said first resist pattern and said second resist pattern as masks, and

10 forming a color selecting mechanism, by

creating a fluorescent screen using said second resist pattern of said mask member as a mask; and

removing said first resist pattern and said second resist pattern of said mask member after creating said fluorescent screen.

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6. A method of creating a fluorescent screen, comprising:

forming on a color selecting mechanism a resist pattern that is independent of a beam transmissive aperture pattern of said color selecting mechanism;

20 performing an exposure process for creating said fluorescent screen using said resist pattern as a mask.

7. A method of creating a fluorescent screen, comprising:

forming a mask member that is obtained by forming a first resist
25 pattern having one of a first aperture width and a first aperture diameter on one side of a base material, forming a second resist pattern having one of a second aperture width and a second aperture diameter that is smaller than one of said first aperture width and said first aperture diameter on the other side of said base material, and selectively removing said base
30 material with said first resist pattern, substantially, as a mask; and

performing an exposure process for creating said fluorescent

screen using said second resist pattern of said mask member as a mask.

8. A method of creating a fluorescent screen, comprising:

forming a mask member by,

5 forming a first photoresist material on one side of a base material and a second photoresist material on the other side;

exposing said first photoresist material and said second photoresist material in differing patterns;

forming a first resist pattern having one of a first aperture width and a first aperture diameter by processing said first photoresist material;

selectively removing said base material with said first resist pattern as a mask until said second photoresist material is reached; and

15 forming a second resist pattern having one of a second aperture width and a second aperture diameter that is smaller than one of said first aperture width and said first aperture diameter by processing said second photoresist material, and

performing an exposure process for creating said fluorescent screen using said second resist pattern of said mask member as a mask.

9. A method of creating a fluorescent screen, comprising:

forming a mask member by,

25 forming a first photoresist material on one side of a base material and a second photoresist material on the other side;

exposing said first photoresist material and said second photoresist material in differing patterns;

forming a first resist pattern having one of a first aperture width and a first aperture diameter by processing said first photoresist material;

30 forming a second resist pattern having one of a second

aperture width and a second aperture diameter that is smaller than one of said first aperture width and said first aperture diameter by processing said second photoresist material; and

- selectively removing said base material in a pattern
5 corresponding to said first resist pattern with said first resist pattern and said second resist pattern as masks, and

performing an exposure process for creating said fluorescent screen using said second resist pattern of said mask member as a mask.

- 10 10. The method of creating a fluorescent screen according to Claim 7, wherein said first photoresist material and said second photoresist material include a photoresist film formed on a surface of a light transmissive resin film.

- 15 11. The method of creating a fluorescent screen according to Claim 8, wherein said first photoresist material and said second photoresist material include a photoresist film formed on a surface of a light transmissive resin film.

- 20 12. The method of creating a fluorescent screen according to Claim 9, wherein said first photoresist material and said second photoresist material include a photoresist film formed on a surface of a light transmissive resin film.

- 25 13. The method of creating a fluorescent screen according to Claim 7, wherein said first resist pattern and said second pattern are both striped patterns.

- 30 14. The method of creating a fluorescent screen according to Claim 8, wherein said first resist pattern and said second pattern are both striped patterns.

15. The method of creating a fluorescent screen according to Claim 9, wherein said first resist pattern and said second pattern are both striped patterns.

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16. The method of creating a fluorescent screen according to Claim 7, wherein said first resist pattern is a striped pattern, and said second resist pattern is a pattern in which neighboring stripes are partially linked.

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17. The method of creating a fluorescent screen according to 8, wherein said first resist pattern is a striped pattern, and said second resist pattern is a pattern in which neighboring stripes are partially linked.

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18. The method of creating a fluorescent screen according to Claim 9, wherein said first resist pattern is a striped pattern, and said second resist pattern is a pattern in which neighboring stripes are partially linked.

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19. The method of creating a fluorescent screen according to Claim 7, wherein said first resist pattern and said second resist pattern are both dotted patterns.

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20. The method of creating a fluorescent screen according to Claim 8, wherein said first resist pattern and said second resist pattern are both dotted patterns.

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21. The method of creating a fluorescent screen according to Claim 9, wherein said first resist pattern and said second resist pattern are both dotted patterns.